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Search Results - Record(s) 1 through 10 of 15 returned.☐ 1. Document ID: US 6174922 B1

L3: Entry 1 of 15

File: USPT

Jan 16, 2001

US-PAT-NO: 6174922

DOCUMENT-IDENTIFIER: US 6174922 B1

TITLE: Sulphonamide derivatives

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arnold; Macklin Brian	Morgantown	IN	N/A	N/A
Ornstein; Paul Leslie	Carmel	IN	N/A	N/A
Zimmerman; Dennis Michael	Zionsville	IN	N/A	N/A
Escribano; Ana Maria	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 514/604; 548/205, 548/561, 548/569, 549/265, 549/491, 549/78, 556/489, 558/408, 558/413, 558/430, 560/12, 562/430, 564/80, 564/82, 564/85, 564/86, 564/89, 564/90

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 2. Document ID: US 6103225 A

L3: Entry 2 of 15

File: USPT

Aug 15, 2000

US-PAT-NO: 6103225

DOCUMENT-IDENTIFIER: US 6103225 A

TITLE: Methods of aquaculture by feeding larval shrimp Thraustochytrium and/or Schizochytrium microflora

DATE-ISSUED: August 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO	N/A	N/A

US-CL-CURRENT: 424/93.1; 119/200, 119/205, 119/215, 119/230, 424/93.7, 426/61, 426/805, 435/257.1, 435/261

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 3. Document ID: US 5952334 A

L3: Entry 3 of 15

File: USPT

Sep 14, 1999

US-PAT-NO: 5952334

DOCUMENT-IDENTIFIER: US 5952334 A

TITLE: Carbocyclic compounds

DATE-ISSUED: September 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gomez; Jose Ruiz	Madrid	N/A	N/A	ESX
Calderon; Jose Marie Bueno	Madrid	N/A	N/A	ESX
Garcia-Ochoa Dorado; Silvestre	Madrid	N/A	N/A	ESX
Fraile Gabaldon; Maria T.	Madrid	N/A	N/A	ESX
Pichel; Julia C.	Madrid	N/A	N/A	ESX
Roman; Jose Fiandor	Madrid	N/A	N/A	ESX
Gargallo Viola; Domingo	Madrid	N/A	N/A	ESX
Cuevas Zurita; Juan C.	Madrid	N/A	N/A	ESX
Lavandera Diaz; Jose L.	Madrid	N/A	N/A	ESX
Huss; Sophie	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 514/269; 514/149, 514/183, 514/383, 514/430, 514/450, 514/456

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 4. Document ID: US 5908622 A

L3: Entry 4 of 15

File: USPT

Jun 1, 1999

US-PAT-NO: 5908622

DOCUMENT-IDENTIFIER: US 5908622 A

TITLE: Food product containing thraustochytrium and/or schizochytrium microflora and an additional agricultural based ingredient

DATE-ISSUED: June 1, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO	N/A	N/A

US-CL-CURRENT: 424/93.1; 424/93.3, 426/61, 426/807, 435/243, 435/257.1, 435/41, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 5. Document ID: US 5854280 A

L3: Entry 5 of 15

File: USPT

Dec 29, 1998

US-PAT-NO: 5854280

DOCUMENT-IDENTIFIER: US 5854280 A

TITLE: Antifungal sordaridin derivatives

DATE-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gomez; Jose R. Ruiz	Madrid	N/A	N/A	ESX
Calderon; Jose Maria Bueno	Madrid	N/A	N/A	ESX
Garcia-Ochoa Dorado; Silvestre	Madrid	N/A	N/A	ESX
Fraile Gabaldon; Maria T.	Madrid	N/A	N/A	ESX
Pichel; Julia C.	Madrid	N/A	N/A	ESX
Roman; Jose M. Fiandor	Madrid	N/A	N/A	ESX
Gargallo Viola; Domingo	Madrid	N/A	N/A	ESX
Cuevas Zurita; Juan C.	Madrid	N/A	N/A	ESX
Lavandera Diaz; Jose L.	Madrid	N/A	N/A	ESX
Huss; Sophie	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 514/456; 514/457, 514/460, 549/362, 549/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 6. Document ID: US 5688500 A

L3: Entry 6 of 15

File: USPT

Nov 18, 1997

US-PAT-NO: 5688500

DOCUMENT-IDENTIFIER: US 5688500 A

TITLE: Method of aquaculture comprising feeding microflora having a small cell aggregate size

DATE-ISSUED: November 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO	N/A	N/A

US-CL-CURRENT: 424/93.1; 426/53, 426/54, 426/601, 426/608, 426/641, 426/649, 435/134, 435/243, 435/254.1, 435/261

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 7. Document ID: US 5518918 A

L3: Entry 7 of 15

File: USPT

May 21, 1996

US-PAT-NO: 5518918

DOCUMENT-IDENTIFIER: US 5518918 A

TITLE: Microfloral biomass having omega-3 highly unsaturated fatty acids

DATE-ISSUED: May 21, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO	N/A	N/A

US-CL-CURRENT: 435/257.1; 426/615, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 8. Document ID: US 5340742 A

L3: Entry 8 of 15

File: USPT

Aug 23, 1994

US-PAT-NO: 5340742

DOCUMENT-IDENTIFIER: US 5340742 A

TITLE: Process for growing thraustochytrium and schizochytrium using non-chloride salts to produce a microfloral biomass having omega-3-highly unsaturated fatty acids

DATE-ISSUED: August 23, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO	N/A	N/A

US-CL-CURRENT: 435/256.8; 435/134, 435/254.1, 435/257.1, 435/911, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 9. Document ID: US 5196564 A

L3: Entry 9 of 15

File: USPT

Mar 23, 1993

US-PAT-NO: 5196564

DOCUMENT-IDENTIFIER: US 5196564 A

TITLE: Physiologically active substance TAN-931, its derivatives, their production and use

DATE-ISSUED: March 23, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanamaru; Tsuneo	Takatsuki	N/A	N/A	JPX
Hida; Tsuneaki	Osaka	N/A	N/A	JPX
Muroi; Masayuki	Suita	N/A	N/A	JPX

US-CL-CURRENT: 560/52; 435/183, 560/35, 560/54

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 10. Document ID: US 5013757 A

L3: Entry 10 of 15

File: USPT

May 7, 1991

US-PAT-NO: 5013757

DOCUMENT-IDENTIFIER: US 5013757 A

TITLE: Physiologically active substance Tan-931, its derivatives, their production and use

DATE-ISSUED: May 7, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanamaru; Tsuneo	Takatsuki	N/A	N/A	JPX
Hida; Tsuneaki	Osaka	N/A	N/A	JPX
Muroi; Masayuki	Suita	N/A	N/A	JPX

US-CL-CURRENT: 514/568; 544/174, 544/176, 544/3, 544/391, 544/8, 546/226,
548/127, 548/128, 548/214, 548/578, 560/56, 562/440, 562/441, 562/460, 564/167,
564/169

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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"SODIUM BICARBONATE".USPT.	0
"SODIUM CARBONATE".USPT.	0
"SODIUM SULFATE".USPT.	0
(1 AND "SODIUM BICARBONATE" AND "SODIUM CARBONATE" AND "SODIUM SULFATE").USPT.	15

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L3: Entry 11 of 15

File: USPT

Jun 19, 1990

US-PAT-NO: 4935543

DOCUMENT-IDENTIFIER: US 4935543 A

TITLE: Physiologically active substance tan-931, its derivatives, their production and use

DATE-ISSUED: June 19, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanamaru; Tsuneo	Takatsuki	N/A	N/A	JPX
Hida; Tsuneaki	Osaka	N/A	N/A	JPX
Muroi; Masayuki	Suita	N/A	N/A	JPX

US-CL-CURRENT: 564/169, 544/174, 544/176, 544/3, 544/391, 544/8, 546/226, 548/127, 548/128, 548/214, 548/578, 560/56, 562/440, 562/441, 562/460, 564/167

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ **12. Document ID: US 4749710 A**

L3: Entry 12 of 15

File: USPT

Jun 7, 1988

US-PAT-NO: 4749710

DOCUMENT-IDENTIFIER: US 4749710 A

TITLE: Immunosuppressive agents

DATE-ISSUED: June 7, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Truitt; Gary A.	Bloomfield	NJ	N/A	N/A
Benjamin; William R.	Cedar Grove	NJ	N/A	N/A
Devens; Bruce H.	Glen Rock	NJ	N/A	N/A
Gately; Maurice K.	Montville	NJ	N/A	N/A

US-CL-CURRENT: 514/167

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 13. Document ID: US 4229466 A

L3: Entry 13 of 15

File: USPT

Oct 21, 1980

US-PAT-NO: 4229466

DOCUMENT-IDENTIFIER: US 4229466 A

TITLE: Sesquiterpene derivatives having anti-complementary activity

DATE-ISSUED: October 21, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyazaki; Wasei	Tokushima	N/A	N/A	JPX
Kaise; Hirotsugu	Tokushima	N/A	N/A	JPX
Nakano; Yoshimasa	Tokushima	N/A	N/A	JPX
Izawa; Taketoshi	Tokushima	N/A	N/A	JPX
Oshiro; Yasuo	Tokushima	N/A	N/A	JPX
Shinohara; Masanao	Naruto	N/A	N/A	JPX

US-CL-CURRENT: 514/462; 435/126, 549/264, 549/345

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw. Desc	Image
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☐ 14. Document ID: US 3794732 A

L3: Entry 14 of 15

File: USPT

Feb 26, 1974

US-PAT-NO: 3794732

DOCUMENT-IDENTIFIER: US 3794732 A

TITLE: RUMINANT FEED UTILIZATION IMPROVEMENT

DATE-ISSUED: February 26, 1974

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Raun; Arthur P.	New Palestine	IN	N/A	N/A

US-CL-CURRENT: 514/460

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw. Desc	Image
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☐ 15. Document ID: US 3761588 A

L3: Entry 15 of 15

File: USPT

Sep 25, 1973

US-PAT-NO: 3761588

DOCUMENT-IDENTIFIER: US 3761588 A

TITLE: ANTIBIOTICS AND PRODUCTION THEREOF

DATE-ISSUED: September 25, 1973

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsuruoka; Takashi	Kawasaki-shi	N/A	N/A	JA
Shomura; Takashi	Yokohama-shi	N/A	N/A	JA
Ezaki; Norio	Yokohama-shi	N/A	N/A	JA
Akita; Eiichi	Tokyo	N/A	N/A	JA
Inoue; Shigeharu	Yokohama-shi	N/A	N/A	JA
Fukatsu; Shunzo	Tokyo	N/A	N/A	JA
Amano; Shoichi	Kawasaki-shi	N/A	N/A	JA
Watanabe; Hiroshi	Yokohama-shi	N/A	N/A	JA
Niida; Taro	Yokohama-shi	N/A	N/A	JA

US-CL-CURRENT: 424/121

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw	Desc	Image
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Term	Documents
"SODIUM BICARBONATE".USPT.	0
"SODIUM CARBONATE".USPT.	0
"SODIUM SULFATE".USPT.	0
(1 AND "SODIUM BICARBONATE" AND "SODIUM CARBONATE" AND "SODIUM SULFATE").USPT.	15

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L4: Entry 22 of 41

File: USPT

Aug 6, 1991

DOCUMENT-IDENTIFIER: US 5037759 A

TITLE: Process for the preparation of substituted phenoxy propanoic acids

BSPR:

After the above mentioned cultivation for about 0.5 to 10 days the cells may be isolated from the culturing medium before suspending the cells in the minimal liquid nutrient medium. To grow the micro-organisms used for the oxidation, ordinary culture mediums containing an assimilable carbon source (for example glucose, lactate, hydrocarbons like tetradecane (C14), etc.), a nitrogen source (for example ammonium sulphate, ammonium nitrate, ammonium chloride, etc.), with an agent for an organic nutrient source (for example yeast extract, malt extract, peptone, meat extract, etc.) and an inorganic nutrient source (for example phosphate, magnesium, potassium, zinc, iron and other metals in trace amounts) may be used. Optionally an inducer (for example diethoxymethane) is added to the culture medium. A temperature between 0.degree. and 45.degree. C. and a pH between 3.5 and 9 is maintained during the growth of the micro-organisms. Preferably the micro-organisms are grown at a temperature between 20.degree. and 37.degree. C. and at a pH between 5 and 8.

BSPR:

However, preferably during the conversion of compound II into compound I the microorganisms are held in a substantially non-growing stage using a minimal culture medium. As minimal culture medium, an ordinary culture medium may be used containing an assimilable carbon source when required (for example glucose, lactate, hydrocarbons like tetradecane (C14), etc.) a nitrogen source when required (for example ammonium sulphate, ammonium, nitrate, ammonium chloride, etc.), with an agent for an organic nutrient source when required (for example yeast extract, malt extract, peptone, meat extract, etc.) and an inorganic nutrient source when required (for example phosphate, magnesium, potassium, zinc, iron and other metals in trace amounts). The micro-organisms can be kept in the non-growing stage for example under exclusion of the assimilable carbon source or under exclusion of the nitrogen source. A temperature between 0.degree. and 45.degree. C. and a pH between 3.5 and 9 is maintained during this stage. Preferably the microorganisms are kept at a temperature between 20.degree. and 37.degree. C. and a pH between 5 and 8. The aerobic conditions required during this stage can be provided according to the abovementioned procedures, provided that the supply of oxygen is sufficient to meet the metabolic requirement of the microorganisms but also to effect the desired oxidation. The product produced by the micro-organisms as mentioned above, can be recovered and purified according to any of the well established procedures. Compounds of formula I can be converted into esters or salts by established procedures if desired.

DEPR:

The suspension was incubated for 5 days at 30.degree. C. on a shaker at 200 rpm and the incubation was acidified with 5N sulphuric acid (5 ml) and extracted twice with an equal volume of dichloromethane. The extracts were dried over anhydrous sodium sulphate and evaporated to dryness. The residues were extracted with 4.times.5 ml. HPLC solvent (70-30 acetonitrile - 2% acetic acid) and the extracts evaporated overnight with a stream of nitrogen. The residues were again dissolved in HPLC solvent (1 ml) and purified by preparation HPLC as described above.

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L2: Entry 6 of 182

File: USPT

Jun 13, 2000

DOCUMENT-IDENTIFIER: US 6074854 A

TITLE: Pullulanase, microorganisms which produce it, processes for the preparation of this pullulanase and the uses thereof

BSPR:

The sources of carbon in the culture medium are usually chosen from starch, partially hydrolysed starch, soluble starch, oligosaccharides, glucose, amylose, amylopectin or a mixture of two or more of these. The sources of carbon in the culture medium are preferably chosen from partially hydrolysed starch, pullulane, glucose or a mixture of these. Good results have been obtained with glucose and partially hydrolysed starch. The sources of nitrogen in the culture medium are usually chosen from yeast extract, soya flour, cottonseed flour, fish meal, gelatin, potato flour or a mixture of two or more of these. The sources of nitrogen in the culture medium are preferably chosen from yeast extract, soya flour or a mixture of these. Good results have been obtained with yeast extract. The mineral salts in the culture medium are generally chosen, with respect to the anions, from chloride, carbonate, phosphate and sulphate, and, with respect to the cations, from potassium, sodium, ammonium, magnesium, calcium or a mixture of two or more of these. Good results have been obtained with a mixture of the following salts: KH.sub.2 PO.sub.4, K.sub.2 HPO.sub.4.3H.sub.2 O, (NH.sub.4).sub.2 SO.sub.4, MgCl.sub.2.6H.sub.2 O and CaCl.sub.2.2H.sub.2 O.

DEPR:

The strain B. licheniformis SE2 delapl transformed by the plasmid pUBDEBRA1 as obtained in Example 19 is cultured for 17 hours at 37.degree. C. in a preculture LB medium supplemented with 0.5% (w/v) of glucose and 20 .mu.g/ml of kanamycin. This preculture is transferred (5% v/v) into 50 ml of M2 medium supplemented with 20 .mu.g/ml of kanamycin. The M2 medium contains 30 g of soya flour, 75 g of soluble starch, 2 g of sodium sulphate, 5 mg of magnesium chloride, 3 g of NaH.sub.2 PO.sub.4, 0.2 g of CaCl.sub.2.H.sub.2 O and 1000 ml of water. The pH of this M2 medium is adjusted to 5.8 with 10 N NaOH before its sterilization. The culture is incubated, while stirring, for 80 hours at 37.degree. C. After 80 hours, the biomass is eliminated by centrifugation at 5000 revolutions per minute for 10 minutes. The supernatant from the centrifugation is kept. The enzymatic activity of this supernatant is measured and the presence of a pullulanase activity is recorded.

103/
102(b) (38) 40, 41, 42, 43, 44, 45, 46,

48, 4

(53), 54, 55, 56, 57,

(63), 63, 65

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47

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68-71 (3)

DEPR:

The mixture was poured into half a liter of cold water and extracted with ether (2.times.). The extract was washed with excess 5% hydrochloric acid, water, 1M sodium bicarbonate and brine respectively, dried with anhydrous magnesium sulphate, filtered and evaporated to give 39.59 g of product.

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Term	Documents
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11 and "sodium sulfate" and "sodium bicarbonate"

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Search History

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USPT	11 and "sodium sulfate" and "sodium bicarbonate"	41	<u>L4</u>
USPT	11 and "sodium bicarbonate" and "sodium carbonate" and "sodium sulfate"	15	<u>L3</u>
USPT	11 and "sodium sulfate"	182	<u>L2</u>
USPT	"culture medium" with "chloride"	1280	<u>L1</u>

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	11 and "sodium bicarbonate" and "sodium carbonate"	37	<u>L11</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	11 and "sodium bicarbonate"	118	<u>L10</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	11 and "non-chloride salt"	1	<u>L9</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" and "chloride"	16309	<u>L8</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" and "0.085M"	10	<u>L7</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" and "0.085M chloride"	0	<u>L6</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "0.085 M chloride"	0	<u>L5</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride" and "low concentration" with chloride	4	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride" and "low concentration"	96	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride" and "low concentration of chloride"	0	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride"	1679	<u>L1</u>

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Term	Documents
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CHLORIDE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	610933
CHLORIDES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	58812
"LOW CONCENTRATION".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
((("CULTURE MEDIUM" WITH CHLORIDE) AND (CHLORIDE WITH "LOW CONCENTRATION"))).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	4

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 "culture medium" with "chloride" and
 "low concentration" with chloride
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USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride" and "low concentration"	96	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride" and "low concentration of chloride"	0	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride"	1679	<u>L1</u>

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Term	Documents
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"SODIUM CARBONATE".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
(1 AND "SODIUM BICARBONATE" AND "SODIUM CARBONATE").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	37

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11 and "sodium bicarbonate" and "sodium carbonate"

[Clear](#)**Search History****Today's Date: 5/3/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	11 and "sodium bicarbonate" and "sodium carbonate"	37	<u>L11</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	11 and "sodium bicarbonate"	118	<u>L10</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	11 and "non-chloride salt"	1	<u>L9</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" and "chloride"	16309	<u>L8</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" and "0.085M"	10	<u>L7</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" and "0.085M chloride"	0	<u>L6</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "0.085 M chloride"	0	<u>L5</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride" and "low concentration" with chloride	4	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride" and "low concentration"	96	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride" and "low concentration of chloride"	0	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride"	1679	<u>L1</u>

WEST[Generate Collection](#)**Search Results - Record(s) 1 through 10 of 10 returned.**☐ 1. Document ID: US 5891393 A

L7: Entry 1 of 10

File: USPT

Apr 6, 1999

US-PAT-NO: 5891393

DOCUMENT-IDENTIFIER: US 5891393 A

TITLE: Method for the microbial decontamination of blood platelets

DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Read; Marjorie S.	Durham	NC	N/A	N/A
Bode; Arthur P.	Greenville	NC	N/A	N/A
Summaria; Louis J.	Villa Park	IL	N/A	N/A

US-CL-CURRENT: [422/31](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 5830710 A

L7: Entry 2 of 10

File: USPT

Nov 3, 1998

US-PAT-NO: 5830710

DOCUMENT-IDENTIFIER: US 5830710 A

TITLE: Cloned porphyromonas gingivalis genes and probes for the detection of periodontal disease

DATE-ISSUED: November 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Progulsk-Fox; Ann	Gainesville	FL	N/A	N/A
Tumwasorn; Somying	Bangkok	N/A	N/A	THX
Lepine; Guylaine	Fort Erie	N/A	N/A	CAX
Han; Naiming	Gainesville	FL	N/A	N/A
Lantz; Marilyn	Indianapolis	IN	N/A	N/A
Patti; Joseph M.	Missouri City	TX	N/A	N/A

US-CL-CURRENT: [435/91.1](#); [424/190.1](#), [424/234.1](#), [536/22.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 5824791 A

L7: Entry 3 of 10

File: USPT

Oct 20, 1998

US-PAT-NO: 5824791

DOCUMENT-IDENTIFIER: US 5824791 A

TITLE: Cloned porphyromonas gingivalis genes and probes for the detection of periodontal disease

DATE-ISSUED: October 20, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Progulske-Fox; Ann	Gainesville	FL	N/A	N/A
Tumwasorn; Somying	Bangkok	N/A	N/A	THX
Lepine; Guylaine	Fort Erie	N/A	N/A	CAX
Han; Naiming	Gainesville	FL	N/A	N/A
Lantz; Marilyn	Indianapolis	IN	N/A	N/A
Patti; Joseph M.	Missouri City	TX	N/A	N/A

US-CL-CURRENT: 536/23.7; 435/252.3, 536/22.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 4. Document ID: US 5763580 A

L7: Entry 4 of 10

File: USPT

Jun 9, 1998

US-PAT-NO: 5763580

DOCUMENT-IDENTIFIER: US 5763580 A

TITLE: In vitro methods for determining in vivo thrombotic events

DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ginsberg; Mark H.	San Diego	CA	N/A	N/A
Frelinger, III; Andrew L.	North Reading	MA	N/A	N/A
Plow; Edward F.	San Diego	CA	N/A	N/A

US-CL-CURRENT: 530/350; 530/300, 530/326, 530/327, 530/328, 530/329

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 5. Document ID: US 5656442 A

L7: Entry 5 of 10

File: USPT

Aug 12, 1997

US-PAT-NO: 5656442

DOCUMENT-IDENTIFIER: US 5656442 A

TITLE: Characterization of platelet aggregation disorders

DATE-ISSUED: August 12, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ginsberg; Mark H.	San Diego	CA	N/A	N/A

US-CL-CURRENT: 435/7.21; 435/7.24, 435/975, 436/548

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 6. Document ID: US 5498499 A

L7: Entry 6 of 10

File: USPT

Mar 12, 1996

US-PAT-NO: 5498499

DOCUMENT-IDENTIFIER: US 5498499 A

TITLE: Peptides and antibodies that inhibit platelet adhesion

DATE-ISSUED: March 12, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Flow; Edward F.	San Diego	CA	N/A	N/A
Ginsberg; Mark H.	San Diego	CA	N/A	N/A
Loftus; Joseph C.	Carlsbad	CA	N/A	N/A

US-CL-CURRENT: 435/7.21; 424/1.49, 424/1.53, 424/130.1, 424/139.1, 424/143.1, 424/185.1, 424/9.1, 435/7.1, 435/7.24, 435/7.25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 7. Document ID: US 5470738 A

L7: Entry 7 of 10

File: USPT

Nov 28, 1995

US-PAT-NO: 5470738

DOCUMENT-IDENTIFIER: US 5470738 A

TITLE: Antibodies that bind to a ligand-induced binding site on GPIIIa

DATE-ISSUED: November 28, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frelinger, III; Andrew L.	San Diego	CA	N/A	N/A
Plow; Edward F.	San Diego	CA	N/A	N/A
Ginsberg; Mark H.	San Diego	CA	N/A	N/A

US-CL-CURRENT: 435/334; 435/337, 435/343, 530/388.2, 530/388.22, 530/388.25,
530/388.85

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 8. Document ID: US 5372933 A

L7: Entry 8 of 10

File: USPT

Dec 13, 1994

US-PAT-NO: 5372933

DOCUMENT-IDENTIFIER: US 5372933 A

TITLE: Polypeptides that mimic receptor-induced binding sites, and methods of using same

DATE-ISSUED: December 13, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zamarron; Concepcion	San Diego	CA	N/A	N/A
Plow; Edward F.	San Diego	CA	N/A	N/A
Ginsberg; Mark H.	San Diego	CA	N/A	N/A

US-CL-CURRENT: 435/7.21; 435/13, 436/518, 514/12, 514/13, 514/14, 530/324,
530/325, 530/326, 930/DIG.811, 930/DIG.821

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 9. Document ID: US 5196511 A

L7: Entry 9 of 10

File: USPT

Mar 23, 1993

US-PAT-NO: 5196511

DOCUMENT-IDENTIFIER: US 5196511 A

TITLE: Peptides and antibodies that inhibit integrin-ligand binding

DATE-ISSUED: March 23, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Plow; Edward F.	San Diego	CA	N/A	N/A
D'Souza; Stanley E.	San Diego	CA	N/A	N/A
Ginsberg; Mark H.	San Diego	CA	N/A	N/A

US-CL-CURRENT: 530/324; 530/325, 530/326, 530/327, 530/387.9, 530/388.22,
530/388.7, 530/389.6, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 10. Document ID: US 5196309 A

L7: Entry 10 of 10

File: USPT

Mar 23, 1993

US-PAT-NO: 5196309

DOCUMENT-IDENTIFIER: US 5196309 A

TITLE: Characterization of platelet aggregation disorders

DATE-ISSUED: March 23, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ginsberg; Mark H.	San Diego	CA	N/A	N/A

US-CL-CURRENT: 435/7.21; 435/7.24, 436/503, 436/548

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Term	Documents
"CULTURE MEDIUM".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
"0.085M".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	52
0.085MS	0
("0.085M" AND "CULTURE MEDIUM").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	10

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Documents, starting with Document:

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Display Format:

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Term	Documents
"CULTURE MEDIUM".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
"0.085M".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	52
0.085MS	0
("0.085M" AND "CULTURE MEDIUM").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	10

Database:

US Patents Full-Text Database
US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Refine Search:

"culture medium" and "0.085M"

[Clear](#)**Search History**

Today's Date: 5/3/2001

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" and "0.085M"	10	<u>L7</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" and "0.085M chloride"	0	<u>L6</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "0.085 M chloride"	0	<u>L5</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride" and "low concentration" with chloride	4	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride" and "low concentration"	96	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride" and "low concentration of chloride"	0	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	"culture medium" with "chloride"	1679	<u>L1</u>

WEST[Generate Collection](#)**Search Results - Record(s) 1 through 1 of 1 returned.**☐ 1. Document ID: US 5340742 A

L9: Entry 1 of 1

File: USPT

Aug 23, 1994

US-PAT-NO: 5340742

DOCUMENT-IDENTIFIER: US 5340742 A

TITLE: Process for growing thraustochytrium and schizochytrium using
non-chloride salts to produce a microfloral biomass having omega-3-highly
unsaturated fatty acids

DATE-ISSUED: August 23, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO	N/A	N/A

US-CL-CURRENT: 435/256.8; 435/134, 435/254.1, 435/257.1, 435/911, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Term	Documents
"NON-CHLORIDE SALT".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
("NON-CHLORIDE SALT" AND 1).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1

[Display](#)[10](#)Documents, starting with Document: [1](#)**Display Format:**[CIT](#)[Change Format](#)

WEST[Generate Collection](#)**Search Results - Record(s) 1 through 10 of 37 returned.**☐ 1. Document ID: US 20010000151 A1

L11: Entry 1 of 37

File: PGPB

Apr 5, 2001

PGPUB-DOCUMENT-NUMBER: 20010000151
PGPUB-FILING-TYPE: new-utility
DOCUMENT-IDENTIFIER: US 20010000151 A1

TITLE: Eggs containing high concentrations of omega-3 highly unsaturated fatty acids and methods for producing the same

PUBLICATION-DATE: April 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Barclay, William R.	Boulder	CO	US	

US-CL-CURRENT: 435/254.1; 119/6.8, 424/93.5, 426/53, 426/61, 426/614

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6174922 B1

L11: Entry 2 of 37

File: USPT

Jan 16, 2001

US-PAT-NO: 6174922
DOCUMENT-IDENTIFIER: US 6174922 B1

TITLE: Sulphonamide derivatives

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arnold; Macklin Brian	Morgantown	IN	N/A	N/A
Ornstein; Paul Leslie	Carmel	IN	N/A	N/A
Zimmerman; Dennis Michael	Zionsville	IN	N/A	N/A
Escribano; Ana Maria	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 514/604; 548/205, 548/561, 548/569, 549/265, 549/491, 549/78,
556/489, 558/408, 558/413, 558/430, 560/12, 562/430, 564/80, 564/82, 564/85,
564/86, 564/89, 564/90

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6103225 A

L11: Entry 3 of 37

File: USPT

Aug 15, 2000

US-PAT-NO: 6103225

DOCUMENT-IDENTIFIER: US 6103225 A

TITLE: Methods of aquaculture by feeding larval shrimp Thraustochytrium and/or Schizochytrium microflora

DATE-ISSUED: August 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO	N/A	N/A

US-CL-CURRENT: 424/93.1; 119/200, 119/205, 119/215, 119/230, 424/93.7, 426/61, 426/805, 435/257.1, 435/261

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 4. Document ID: US 6096315 A

L11: Entry 4 of 37

File: USPT

Aug 1, 2000

US-PAT-NO: 6096315

DOCUMENT-IDENTIFIER: US 6096315 A

TITLE: Heterofunctional cellular immunological reagents, vaccines containing same and methods for the use of same

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zimmerman; Daniel H.	Bethesda	MD	N/A	N/A
Elliott; Donald A.	Bethesda	MD	N/A	N/A

US-CL-CURRENT: 424/193.1; 424/184.1, 424/185.1, 530/350, 530/395, 530/403, 530/868

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 5. Document ID: US 5952334 A

L11: Entry 5 of 37

File: USPT

Sep 14, 1999

US-PAT-NO: 5952334

DOCUMENT-IDENTIFIER: US 5952334 A

TITLE: Carbocyclic compounds

DATE-ISSUED: September 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gomez; Jose Ruiz	Madrid	N/A	N/A	ESX
Calderon; Jose Marie Bueno	Madrid	N/A	N/A	ESX
Garcia-Ochoa Dorado; Silvestre	Madrid	N/A	N/A	ESX
Fraile Gabaldon; Maria T.	Madrid	N/A	N/A	ESX
Pichel; Julia C.	Madrid	N/A	N/A	ESX
Roman; Jose Fiandor	Madrid	N/A	N/A	ESX
Gargallo Viola; Domingo	Madrid	N/A	N/A	ESX
Cuevas Zurita; Juan C.	Madrid	N/A	N/A	ESX
Lavandera Diaz; Jose L.	Madrid	N/A	N/A	ESX
Huss; Sophie	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 514/269; 514/149, 514/183, 514/383, 514/430, 514/450, 514/456

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 6. Document ID: US 5908622 A

L11: Entry 6 of 37

File: USPT

Jun 1, 1999

US-PAT-NO: 5908622

DOCUMENT-IDENTIFIER: US 5908622 A

TITLE: Food product containing thraustochytrium and/or schizochytrium microflora and an additional agricultural based ingredient

DATE-ISSUED: June 1, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO	N/A	N/A

US-CL-CURRENT: 424/93.1; 424/93.3, 426/61, 426/807, 435/243, 435/257.1, 435/41, 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 7. Document ID: US 5854280 A

L11: Entry 7 of 37

File: USPT

Dec 29, 1998

US-PAT-NO: 5854280

DOCUMENT-IDENTIFIER: US 5854280 A

TITLE: Antifungal sordaridin derivatives

DATE-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gomez; Jose R. Ruiz	Madrid	N/A	N/A	ESX
Calderon; Jose Maria Bueno	Madrid	N/A	N/A	ESX
Garcia-Ochoa Dorado; Silvestre	Madrid	N/A	N/A	ESX
Fraile Gabaldon; Maria T.	Madrid	N/A	N/A	ESX
Pichel; Julia C.	Madrid	N/A	N/A	ESX
Roman; Jose M. Fiandor	Madrid	N/A	N/A	ESX
Gargallo Viola; Domingo	Madrid	N/A	N/A	ESX
Cuevas Zurita; Juan C.	Madrid	N/A	N/A	ESX
Lavandera Diaz; Jose L.	Madrid	N/A	N/A	ESX
Huss; Sophie	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 514/456; 514/457, 514/460, 549/362, 549/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 8. Document ID: US 5750533 A

L11: Entry 8 of 37

File: USPT

May 12, 1998

US-PAT-NO: 5750533

DOCUMENT-IDENTIFIER: US 5750533 A

TITLE: 14-substituted marcfortines and derivatives useful as antiparasitic agents

DATE-ISSUED: May 12, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Byung H.	Kalamazoo	MI	N/A	N/A

US-CL-CURRENT: 514/278; 514/250, 544/230, 546/18

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 9. Document ID: US 5688500 A

L11: Entry 9 of 37

File: USPT

Nov 18, 1997

US-PAT-NO: 5688500

DOCUMENT-IDENTIFIER: US 5688500 A

TITLE: Method of aquaculture comprising feeding microflora having a small cell aggregate size

DATE-ISSUED: November 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO	N/A	N/A

US-CL-CURRENT: 424/93.1; 426/53, 426/54, 426/601, 426/608, 426/641, 426/649,
435/134, 435/243, 435/254.1, 435/261

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 10. Document ID: US 5652342 A

L11: Entry 10 of 37

File: USPT

Jul 29, 1997

US-PAT-NO: 5652342

DOCUMENT-IDENTIFIER: US 5652342 A

TITLE: Heterofunctional cellular immunological reagents, vaccines containing same and methods for the use of same

DATE-ISSUED: July 29, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zimmerman; Daniel H.	Bethesda	MD	N/A	N/A
Elliott; Donald A.	Bethesda	MD	N/A	N/A

US-CL-CURRENT: 530/403; 424/185.1, 424/193.1, 530/300, 530/350, 530/402

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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Term	Documents
"SODIUM BICARBONATE".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
"SODIUM CARBONATE".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
(1 AND "SODIUM BICARBONATE" AND "SODIUM CARBONATE").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	37

[Display](#)[10](#)

Documents, starting with Document:

[11](#)

Display Format:

WEST[Generate Collection](#)**Search Results - Record(s) 11 through 20 of 37 returned.**☐ 11. Document ID: US 5518918 A

L11: Entry 11 of 37

File: USPT

May 21, 1996

US-PAT-NO: 5518918

DOCUMENT-IDENTIFIER: US 5518918 A

TITLE: Microfloral biomass having omega-3 highly unsaturated fatty acids

DATE-ISSUED: May 21, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO	N/A	N/A

US-CL-CURRENT: [435/257.1](#); [426/615](#), [435/946](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 12. Document ID: US 5500410 A

L11: Entry 12 of 37

File: USPT

Mar 19, 1996

US-PAT-NO: 5500410

DOCUMENT-IDENTIFIER: US 5500410 A

TITLE: Substituted alkylamide derivatives of teicoplanin

DATE-ISSUED: March 19, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Malabarba; Adriano	Binasco	N/A	N/A	ITX
Seneci; Pierfausto	Brescia	N/A	N/A	ITX
Kettenring; Jurgen K.	Varese	N/A	N/A	ITX
Ciabatti; Romeo	Novate Milanese	N/A	N/A	ITX

US-CL-CURRENT: [514/8](#); [514/9](#), [530/317](#), [530/322](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 13. Document ID: US 5340742 A

L11: Entry 13 of 37

File: USPT

Aug 23, 1994

US-PAT-NO: 5340742

DOCUMENT-IDENTIFIER: US 5340742 A

TITLE: Process for growing thraustochytrium and schizochytrium using non-chloride salts to produce a microfloral biomass having omega-3-highly unsaturated fatty acids

DATE-ISSUED: August 23, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barclay; William R.	Boulder	CO	N/A	N/A

US-CL-CURRENT: [435/256.8](#); [435/134](#), [435/254.1](#), [435/257.1](#), [435/911](#), [435/946](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 14. Document ID: US 5196564 A

L11: Entry 14 of 37

File: USPT

Mar 23, 1993

US-PAT-NO: 5196564

DOCUMENT-IDENTIFIER: US 5196564 A

TITLE: Physiologically active substance TAN-931, its derivatives, their production and use

DATE-ISSUED: March 23, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanamaru; Tsuneo.	Takatsuki	N/A	N/A	JPX
Hida; Tsuneaki	Osaka	N/A	N/A	JPX
Muroi; Masayuki	Suita	N/A	N/A	JPX

US-CL-CURRENT: [560/52](#); [435/183](#), [560/35](#), [560/54](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 15. Document ID: US 5190867 A

L11: Entry 15 of 37

File: USPT

Mar 2, 1993

US-PAT-NO: 5190867

DOCUMENT-IDENTIFIER: US 5190867 A

TITLE: Process for the preparation of R-2,2-R.sub.1,R.sub.2
-1,3-dioxolane-4-methanol

DATE-ISSUED: March 2, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bertola; Mauro A.	Delft	N/A	N/A	NLX
Marx; Arthur F.	Delft	N/A	N/A	NLX
Koger; Hein S.	Spaarndam	N/A	N/A	NLX
Claassen; Volkert P.	Amsterdam	N/A	N/A	NLX
Phillips; Gareth T.	Sittingbourne	N/A	N/A	GBX

US-CL-CURRENT: 435/126; 435/280

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 16. Document ID: US 5093480 A

L11: Entry 16 of 37

File: USPT

Mar 3, 1992

US-PAT-NO: 5093480

DOCUMENT-IDENTIFIER: US 5093480 A

TITLE: Azoxy compounds

DATE-ISSUED: March 3, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakayama; Masahito	Kodaira	N/A	N/A	JPX
Watanabe; Isamu	Higashimurayama	N/A	N/A	JPX
Deushi; Takeo	Sayama	N/A	N/A	JPX
Kamiya; Kazuhiro	Tachikawa	N/A	N/A	JPX
Ito; Hisakatsu	Kawagoe	N/A	N/A	JPX
Shiratsuchi; Masami	Musashimurayama	N/A	N/A	JPX

US-CL-CURRENT: 534/566; 534/567, 534/570, 534/572

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 17. Document ID: US 5013757 A

L11: Entry 17 of 37

File: USPT

May 7, 1991

US-PAT-NO: 5013757

DOCUMENT-IDENTIFIER: US 5013757 A

TITLE: Physiologically active substance Tan-931, its derivatives, their production and use

DATE-ISSUED: May 7, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanamaru; Tsuneo	Takatsuki	N/A	N/A	JPX
Hida; Tsuneaki	Osaka	N/A	N/A	JPX
Muroi; Masayuki	Suita	N/A	N/A	JPX

US-CL-CURRENT: 514/568; 544/174, 544/176, 544/3, 544/391, 544/8, 546/226, 548/127, 548/128, 548/214, 548/578, 560/56, 562/440, 562/441, 562/460, 564/167, 564/169

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 18. Document ID: US 4971900 A

L11: Entry 18 of 37

File: USPT

Nov 20, 1990

US-PAT-NO: 4971900

DOCUMENT-IDENTIFIER: US 4971900 A

TITLE: Method for the detection of biologically active agents

DATE-ISSUED: November 20, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ahnell; Joseph E.	Hydes	MD	N/A	N/A
Perks; H. Mark	Baltimore	MD	N/A	N/A
Sussman; Mark L.	Baltimore	MD	N/A	N/A
Tice; Gregory	Lutherville	MD	N/A	N/A

US-CL-CURRENT: 435/29; 435/287.5, 435/34, 435/807, 436/146

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 19. Document ID: US 4935543 A

L11: Entry 19 of 37

File: USPT

Jun 19, 1990

Documents, starting with Document:

Display Format:

US-PAT-NO: 4935543
DOCUMENT-IDENTIFIER: US 4935543 A

TITLE: Physiologically active substance tan-931, its derivatives, their production and use

DATE-ISSUED: June 19, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanamaru; Tsuneo	Takatsuki	N/A	N/A	JPX
Hida; Tsuneaki	Osaka	N/A	N/A	JPX
Muroi; Masayuki	Suita	N/A	N/A	JPX

US-CL-CURRENT: 564/169; 544/174, 544/176, 544/3, 544/391, 544/8, 546/226,
548/127, 548/128, 548/214, 548/578, 560/56, 562/440, 562/441, 562/460, 564/167

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 20. Document ID: US 4904590 A

L11: Entry 20 of 37

File: USPT

Feb 27, 1990

US-PAT-NO: 4904590
DOCUMENT-IDENTIFIER: US 4904590 A

TITLE: Antibiotic A80915 and process for its production

DATE-ISSUED: February 27, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fukuda; David S.	Brownsburg	IN	N/A	N/A
Mynderse; Jon S.	Indianapolis	IN	N/A	N/A
Yao; Raymond C.	Carmel	IN	N/A	N/A

US-CL-CURRENT: 435/147; 435/148, 435/822, 435/886, 514/454, 549/389

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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"SODIUM CARBONATE".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
(1 AND "SODIUM BICARBONATE" AND "SODIUM CARBONATE").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	37

WEST[Generate Collection](#)**Search Results - Record(s) 21 through 30 of 37 returned.**☐ 21. Document ID: US 4749710 A

L11: Entry 21 of 37

File: USPT

Jun 7, 1988

US-PAT-NO: 4749710

DOCUMENT-IDENTIFIER: US 4749710 A

TITLE: Immunosuppressive agents

DATE-ISSUED: June 7, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Truitt; Gary A.	Bloomfield	NJ	N/A	N/A
Benjamin; William R.	Cedar Grove	NJ	N/A	N/A
Devens; Bruce H.	Glen Rock	NJ	N/A	N/A
Gately; Maurice K.	Montville	NJ	N/A	N/A

US-CL-CURRENT: 514/167

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 22. Document ID: US 4436726 A

L11: Entry 22 of 37

File: USPT

Mar 13, 1984

US-PAT-NO: 4436726

DOCUMENT-IDENTIFIER: US 4436726 A

TITLE: N-Acylpeptide compound, processes for the preparation thereof and the pharmaceutical compositions

DATE-ISSUED: March 13, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Umehara; Kazuyoshi	Ashiya	N/A	N/A	JPX
Tanaka; Hirokazu	Takarazuka	N/A	N/A	JPX
Uchida; Itsuo	Kyoto	N/A	N/A	JPX
Kohsaka; Masanobu	Sakai	N/A	N/A	JPX
Imanaka; Hiroshi	Mishima	N/A	N/A	JPX
Yoshida; Keizo	Suita	N/A	N/A	JPX

US-CL-CURRENT: 514/19; 260/1, 514/18, 530/331, 560/251, 560/253

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 23. Document ID: US 4264736 A

L11: Entry 23 of 37

File: USPT

Apr 28, 1981

US-PAT-NO: 4264736

DOCUMENT-IDENTIFIER: US 4264736 A

TITLE: Antibiotic 890A.sub.10

DATE-ISSUED: April 28, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cassidy; Patrick J.	Rahway	NJ	N/A	N/A
Zimmerman; Sheldon B.	Springfield	NJ	N/A	N/A
Tunac; Josefino B.	Somerset	NJ	N/A	N/A
Hernandez; Sebastian	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 435/119; 435/886

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 24. Document ID: US 4264735 A

L11: Entry 24 of 37

File: USPT

Apr 28, 1981

US-PAT-NO: 4264735

DOCUMENT-IDENTIFIER: US 4264735 A

TITLE: Method of producing antibiotic 890A.sub.9

DATE-ISSUED: April 28, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cassidy; Patrick J.	Rahway	NJ	N/A	N/A
Zimmerman; Sheldon B.	Springfield	NJ	N/A	N/A
Tunac; Josefino B.	Somerset	NJ	N/A	N/A
Hernandez; Sebastian	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 435/119; 435/886

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 25. Document ID: US 4247632 A

L11: Entry 25 of 37

File: USPT

Jan 27, 1981

US-PAT-NO: 4247632

DOCUMENT-IDENTIFIER: US 4247632 A

TITLE: Methylguanidine-decomposing enzyme and process for its production

DATE-ISSUED: January 27, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakajima; Motoo	Noda	N/A	N/A	JPX
Mizusawa; Kiyoshi	Noda	N/A	N/A	JPX
Shirokane; Yoshio	Noda	N/A	N/A	JPX

US-CL-CURRENT: 435/12; 426/56, 435/15, 435/18, 435/227, 435/232, 435/267,
435/268, 435/269, 435/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 26. Document ID: US 4235967 A

L11: Entry 26 of 37

File: USPT

Nov 25, 1980

US-PAT-NO: 4235967

DOCUMENT-IDENTIFIER: US 4235967 A

TITLE: Process for producing antibiotics by cultivation of Streptomyces flavogriseus

DATE-ISSUED: November 25, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cassidy; Patrick J.	Rahway	NJ	N/A	N/A
Goegelman; Robert T.	Linden	NJ	N/A	N/A
Stapley; Edward O.	Metuchen	NJ	N/A	N/A
Hernandez; Sebastian	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 435/119; 435/169, 435/886

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 27. Document ID: US 4229534 A

L11: Entry 27 of 37

File: USPT

Oct 21, 1980

US-PAT-NO: 4229534

DOCUMENT-IDENTIFIER: US 4229534 A

TITLE: Acetylthienamycin production

DATE-ISSUED: October 21, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kahan; Jean S.	Rahway	NJ	N/A	N/A
Kahan; Frederick M.	Rahway	NJ	N/A	N/A
Goegelman; Robert T.	Linden	NJ	N/A	N/A
Stapley; Edward O.	Metuchen	NJ	N/A	N/A
Hernandez; Sebastian	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 435/119; 435/886

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KVMC	Draw Desc	Image
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☐ 28. Document ID: US 4229466 A

L11: Entry 28 of 37

File: USPT

Oct 21, 1980

US-PAT-NO: 4229466

DOCUMENT-IDENTIFIER: US 4229466 A

TITLE: Sesquiterpene derivatives having anti-complementary activity

DATE-ISSUED: October 21, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyazaki; Wasei	Tokushima	N/A	N/A	JPX
Kaise; Hiotsugu	Tokushima	N/A	N/A	JPX
Nakano; Yoshimasa	Tokushima	N/A	N/A	JPX
Izawa; Taketoshi	Tokushima	N/A	N/A	JPX
Oshiro; Yasuo	Tokushima	N/A	N/A	JPX
Shinohara; Masanao	Naruto	N/A	N/A	JPX

US-CL-CURRENT: 514/462; 435/126, 549/264, 549/345

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KVMC	Draw Desc	Image
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☐ 29. Document ID: US 4168202 A

L11: Entry 29 of 37

File: USPT

Sep 18, 1979

US-PAT-NO: 4168202

DOCUMENT-IDENTIFIER: US 4168202 A

TITLE: Process for producing antibiotics

DATE-ISSUED: September 18, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cassidy; Patrick J.	Rahway	NJ	N/A	N/A
Goegelman; Robert T.	Linden	NJ	N/A	N/A
Stapley; Edward O.	Metuchen	NJ	N/A	N/A
Hernandez; Sebastian	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 435/121; 540/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 30. Document ID: US 4165379 A

L11: Entry 30 of 37

File: USPT

Aug 21, 1979

US-PAT-NO: 4165379

DOCUMENT-IDENTIFIER: US 4165379 A

TITLE: N-acetyl thienamycin

DATE-ISSUED: August 21, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kahan; Jean S.	Rahway	NJ	N/A	N/A
Kahan; Frederick M.	Rahway	NJ	N/A	N/A
Goegelman; Robert T.	Linden	NJ	N/A	N/A
Stapley; Edward O.	Metuchen	NJ	N/A	N/A
Hernandez; Sebastian	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 514/210.1; 435/119, 435/886, 540/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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"SODIUM CARBONATE".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
(1 AND "SODIUM BICARBONATE" AND "SODIUM CARBONATE").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	37

Documents, starting with Document:

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L11: Entry 31 of 37

File: USPT

Jul 24, 1979

US-PAT-NO: 4162324

DOCUMENT-IDENTIFIER: US 4162324 A

TITLE: Antibiotics 890A.sub.1 and 890A.sub.3

DATE-ISSUED: July 24, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cassidy; Patrick J.	Rahway	NJ	N/A	N/A
Goegelman; Robert T.	Linden	NJ	N/A	N/A
Stapley; Edward O.	Metuchen	NJ	N/A	N/A
Hernandez; Sebastian	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 514/210.1; 435/121, 435/886, 540/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ **32. Document ID: US 4141986 A**

L11: Entry 32 of 37

File: USPT

Feb 27, 1979

US-PAT-NO: 4141986

DOCUMENT-IDENTIFIER: US 4141986 A

TITLE: Antibiotics 890A.sub.2 and 890A.sub.5

DATE-ISSUED: February 27, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cassidy; Patrick J.	Rahway	NJ	N/A	N/A
Goegelman; Robert T.	Linden	NJ	N/A	N/A
Stapley; Edward O.	Metuchen	NJ	N/A	N/A
Hernandez; Sebastian	Madrid	N/A	N/A	ESX

US-CL-CURRENT: 514/210.1; 435/119, 435/886, 540/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 33. Document ID: US 3960667 A

L11: Entry 33 of 37

File: USPT

Jun 1, 1976

US-PAT-NO: 3960667

DOCUMENT-IDENTIFIER: US 3960667 A

TITLE: Antibiotic A23187 and process for preparation thereof

DATE-ISSUED: June 1, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gale; Richard M.	Indianapolis	IN	N/A	N/A
Higgins; Calvin E.	Indianapolis	IN	N/A	N/A
Hoehn; Marvin M.	Indianapolis	IN	N/A	N/A

US-CL-CURRENT: 435/118; 435/803, 435/893

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 34. Document ID: US 3923823 A

L11: Entry 34 of 37

File: USPT

Dec 2, 1975

US-PAT-NO: 3923823

DOCUMENT-IDENTIFIER: US 3923823 A

TITLE: Antibiotic A23187 and Process for preparation thereof

DATE-ISSUED: December 2, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gale; Richard M.	Indianapolis	IN	N/A	N/A
Higgins; Calvin E.	Indianapolis	IN	N/A	N/A
Hoehn; Marvin M.	Indianapolis	IN	N/A	N/A

US-CL-CURRENT: 548/104; 435/119, 435/893, 548/216

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 35. Document ID: US 3794732 A

L11: Entry 35 of 37

File: USPT

Feb 26, 1974

US-PAT-NO: 3794732

DOCUMENT-IDENTIFIER: US 3794732 A

TITLE: RUMINANT FEED UTILIZATION IMPROVEMENT

DATE-ISSUED: February 26, 1974

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Raun; Arthur P.	New Palestine	IN	N/A	N/A

US-CL-CURRENT: 514/460

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 36. Document ID: US 3761588 A

L11: Entry 36 of 37

File: USPT

Sep 25, 1973

US-PAT-NO: 3761588

DOCUMENT-IDENTIFIER: US 3761588 A

TITLE: ANTIBIOTICS AND PRODUCTION THEREOF

DATE-ISSUED: September 25, 1973

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsuruoka; Takashi	Kawasaki-shi	N/A	N/A	JA
Shomura; Takashi	Yokohama-shi	N/A	N/A	JA
Ezaki; Norio	Yokohama-shi	N/A	N/A	JA
Akita; Eiichi	Tokyo	N/A	N/A	JA
Inoue; Shigeharu	Yokohama-shi	N/A	N/A	JA
Fukatsu; Shunzo	Tokyo	N/A	N/A	JA
Amano; Shoichi	Kawasaki-shi	N/A	N/A	JA
Watanabe; Hiroshi	Yokohama-shi	N/A	N/A	JA
Niida; Taro	Yokohama-shi	N/A	N/A	JA

US-CL-CURRENT: 424/121

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 37. Document ID: JP 61070979 A

L11: Entry 37 of 37

File: JPAB

Apr 11, 1986

PUB-NO: JP361070979A
DOCUMENT-IDENTIFIER: JP 61070979 A
TITLE: CULTIVATION OF MARINE CHLORELLA

PUBN-DATE: April 11, 1986

INVENTOR-INFORMATION:

NAME

COUNTRY

KITAGAWA, KIYOHIO

SETO, AKIRA

US-CL-CURRENT: 435/257.1; 435/257.3

INT-CL (IPC): C12N 1/12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Term	Documents
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"SODIUM CARBONATE".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
(1 AND "SODIUM BICARBONATE" AND "SODIUM CARBONATE").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	37

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37

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L4: Entry 1 of 4

File: USPT

Aug 20, 1996

US-PAT-NO: 5547692

DOCUMENT-IDENTIFIER: US 5547692 A

TITLE: Fermented bagasse feed, and its preparation and uses

DATE-ISSUED: August 20, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Iritani; Satoshi	Akaiwa-gun	N/A	N/A	N/A
Mitsuhashi; Masakazu	Okayama	N/A	N/A	N/A
Chaen; Hiroto	Okayama	N/A	N/A	N/A
Miyake; Toshio	Okayama	N/A	N/A	JPX

US-CL-CURRENT: 426/53; 426/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Desc	Image
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☐ 2. Document ID: US 4390624 A

L4: Entry 2 of 4

File: USPT

Jun 28, 1983

US-PAT-NO: 4390624

DOCUMENT-IDENTIFIER: US 4390624 A

TITLE: Preparation of proline from algae

DATE-ISSUED: June 28, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leavitt; Richard I.	Baton Rouge	LA	N/A	N/A

US-CL-CURRENT: 435/107; 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Desc	Image
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☐ 3. Document ID: US 4383039 A

L4: Entry 3 of 4

File: USPT

May 10, 1983

US-PAT-NO: 4383039

DOCUMENT-IDENTIFIER: US 4383039 A

TITLE: L-Proline production from algae

DATE-ISSUED: May 10, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leavitt; Richard I.	Baton Rouge	LA	N/A	N/A

US-CL-CURRENT: 435/107; 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 4383038 A

L4: Entry 4 of 4

File: USPT

May 10, 1983

US-PAT-NO: 4383038

DOCUMENT-IDENTIFIER: US 4383038 A

TITLE: Process for the preparation of L-proline by cultivating algae

DATE-ISSUED: May 10, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leavitt; Richard I.	Baton Rouge	LA	N/A	N/A

US-CL-CURRENT: 435/107; 435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Term	Documents
"CULTURE MEDIUM".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
CHLORIDE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	610933
CHLORIDES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	58812
"LOW CONCENTRATION".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
((("CULTURE MEDIUM" WITH CHLORIDE) AND (CHLORIDE WITH "LOW CONCENTRATION"))).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	4

Documents, starting with Document:

Display Format:

WEST**End of Result Set**☐ **Generate Collection**

L4: Entry 4 of 4

File: USPT

May 10, 1983

DOCUMENT-IDENTIFIER: US 4383038 A

TITLE: Process for the preparation of L-proline by cultivating algae

BSPR:

The cultivation is carried out either on an artificial medium or on sea-water adjusted so as to contain the required nutrients and salt concentrations. The aqueous culture medium employed in the present invention contains an assimilable carbon source, preferably CO.sub.2, assimilable nitrogen sources, conventional inorganic salts, such as, for example, the phosphates, sulfates, nitrates, chlorides and other salts of potassium sodium, calcium, magnesium, iron, zinc, manganese, cobalt, copper, etc., and if necessary, minor organic nutrients, such as, vitamins, or the like. Such nutrients are well known in the art.

BSPR:

The production of high quantities of L-proline in Chlorella sp. 580 algae is brought about by increasing the saltinity of its growth medium. That is, the algae are cultured for a period of time in a growth medium containing a low concentration of sodium chloride such as, for example, from about 0.25 to about 0.5 M NaCl, preferably about 0.5 M NaCl, and then the algae are stressed by increasing the salinity of the medium whereby excess amounts of L-proline are produced within the algae cells. Normally, the addition of sodium chloride to the medium inhibits cell growth and hence reduces L-proline production as demonstrated in Example 1 below. However, applicant has found that the cells can be salt "adapted" to grow in the presence of relatively high concentrations of sodium chloride by first culturing the algae in a medium containing a relatively low concentration of sodium chloride and thereafter increasing the sodium chloride concentration in the medium whereby excess L-proline production is stimulated within the cells.

BSPR:

Thus the production of L-proline can be broken down into two phases. In the first phase, or the growth phase, the algae are added to a suitable growth medium (supplemented tap or sea-water) at low density and allowed to divide and increase their cell number and mass for a period of time, normally between three to twenty-one days, until they have reached a cell density of from about 250 to about 5000 mg/l based on dry cell weight. The inoculation volume is normally between 5 and 10 volume percent of the uninoculated culture. The early culture should be grown in media which have been previously sterilized. In general, the first 20% of the inoculation chain should be accomplished using sterile media. Upon reaching the aforementioned cell density, the algae are then transferred promptly to a culture medium having a higher concentration of sodium chloride and the cells are then made proline productive by continued incubation without growth for an additional period of time of from 6 to 80 hours, typically 16 hours. This is the second phase, or proline production phase, of the process. In lieu of transferring the algae from one medium having a lower sodium chloride concentration to a second and separate medium containing a higher sodium chloride concentration, the sodium chloride content of the original growth medium can simply be increased to a higher concentration at the end of the growth phase. For optimal growth and proline production, Applicant has found that growth in the presence of

approximately 0.5 M sodium chloride followed by proline production in the presence of 1.0 M sodium chloride to yield the highest level of proline production. Although the sodium chloride concentration can be increased above 1 M in the final stage of cultivation, Applicant has found thus far no significant increase in L-proline to cell ratios when the sodium chloride concentration is increased beyond 1 molar. Thus, in a more specific embodiment of the present invention, there is provided a process for the production of L-proline which comprises cultivating *Chlorella* sp. 580 algae under high-intensity illumination in an aqueous growth medium containing an amount sufficient of nutrients including nitrogen to effect growth of the algae and a sodium chloride concentration of up to 0.5 M under an aerobic condition, providing an adequate supply of carbon, in a depth not exceeding approximately 20 cm of the aqueous medium, for a period of time sufficient for the algae to attain a cell density of up to at least 5 grams/l and thereafter increasing the sodium chloride concentration in the medium to 1 molar and continuing cultivating the algae until algae of high L-proline content are obtained, harvesting the algae and recovering from same the L-proline thus produced.

DEPR:

This example demonstrates that as the sodium chloride concentration in a culture medium containing *Chlorella* sp. 580 is increased, cell growth is progressively inhibited.

DEPR:

At the end of 72 hours, an amount of sodium chloride sufficient to bring the level of the sodium chloride concentrations in the culture medium up to 1 M NaCl was added to each medium. The cultures were then shaken for an additional 16 hours to achieve proline enrichment. At the end of the 16 hours, the cells were harvested by centrifugation from their respective cultures and their contents examined for the presence of L-proline. This was accomplished by decanting the culture liquor from the cells after centrifugation and then suspending the cells in fresh water and heating at 100.degree. C. for approximately 20 minutes to extract the proline from the cells into the aqueous phase. The amount of proline produced by the cells was determined by thin layer of chromatography. The results are set forth in Table 3 below.

WEST☐ Generate Collection

L4: Entry 3 of 4

File: USPT

May 10, 1983

DOCUMENT-IDENTIFIER: US 4383039 A

TITLE: L-Proline production from algae

BSPR:

Cultivation is carried out either on an artificial medium or on sea-water adjusted so as to contain the required nutrients and salt concentration. The aqueous culture medium employed in the present invention contains an assimilable carbon source, preferably CO.sub.2, assimilable nitrogen sources, conventional inorganic salts, such as, for example, the phosphates, sulfates, nitrates, chlorides and other salts of potassium, sodium, calcium, magnesium, iron, zinc, manganese, cobalt, copper, etc., and, if necessary, minor organic nutrients, such as vitamins, or the like. Such nutrients are well known in the art.

BSPR:

The production of high quantities of L-proline in Chlorella sp. 580 algae is brought about by increasing the salinity of its growth medium. That is, the algae are cultured for a period of time in a growth medium containing a low concentratin of sodium chloride such as, for example, from about 0.25 to about 0.5 M NaCl, and preferably about 0.5 M NaCl, and then the algae are stressed by increasing the salinity of the medium whereby excess amounts of L-proline are produced within the algae cells. That is, the algae cells are salt "adapted" to grow in the presence of relatively high concentrations of sodium chloride by first culturing the algae in a medium containing a relatively low concentration of sodium chloride and thereafter increasing the sodium chloride concentration in the medium whereby the production of excess amounts of proline are stimulated within the cells.

BSPR:

Thus the production of L-proline can be broken down into two phases. In the first phase, or the growth phase, the algae are added to a suitable growth medium (supplemented tap or sea-water) at low density and allowed to divide and increase their cell number and mass for a period of time, normally between three to twenty-one days, until they have reached a cell density of from about 250 to about 5000 mg/l based on dry cell weight. The inoculation volume is normally between 5 and 10 volume percent of the uninoculated culture. The early culture should be grown in media which previously have been sterilized. In general, the first 20% of the inoculation chain should be accomplished using sterile media. Upon reaching the aforementioned cell density, the algae are then transferred promptly to a culture medium having a higher concentration of sodium chloride and the cells are then made proline productive by continued incubation without growth for an additional period of time of from about 6 to 80 hours, typically 16 hours. This is the second phase, or proline production phase, of the process. In lieu of transferring the algae from one medium having a lower sodium chloride concentration to a second and separate medium containing a higher sodium chloride concentration, the sodium chloride content of the original growth medium simply can be increased to a higher concentration at the end of the growth phase. For optimal growth and proline production, applicant has found that growth in the presence of approximatey 0.5 M sodium chloride followed by proline production in the presence of 1.0 M sodium chloride to yield the highest level of proline production. Although the sodium chloride concentration can be increased above 1 M in the final stage of cultivation, applicant has found thus far no

significant increase in L-proline to cell ratios when the sodium chloride concentration is increased beyond 1 molar. Thus, in a more specific embodiment of the present invention, there is provided a process for the recovery of L-proline from *Chlorella* sp. 580 algae, without disrupting the L-proline synthesizing capability of the algae, which comprises cultivating *Chlorella* sp. 580 algae under high-intensity illumination in an aqueous growth medium containing an amount sufficient of nutrients including nitrogen to effect growth of the algae and a high concentration of sodium chloride of up to 0.5 M under an aerobic condition, providing an adequate supply of carbon, in a depth not exceeding approximately 20 cm of the aqueous medium for a period of time sufficient for the algae to attain a cell density of up to at least 5 grams/l and thereafter increasing the sodium chloride concentration in the medium to 1 molar and continuing cultivating the algae until algae of high L-proline content are obtained, harvesting the algae and thereafter recovering L-proline by diluting the harvested algae with water to a concentration below at least 0.3 M NaCl to effect release of L-proline from the algae into the aqueous phase, removing the algae from the L-proline containing aqueous phase and reintroducing the algae into a high salt concentration containing medium of up to at least 1 M NaCl to restimulate L-proline production within the algae.

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L4: Entry 2 of 4

File: USPT

Jun 28, 1983

DOCUMENT-IDENTIFIER: US 4390624 A

TITLE: Preparation of proline from algae

BSPR:

As disclosed in Applicant's aforementioned U.S. application Ser. No. 329,227, filed Dec. 10, 1981, entitled Process for the Preparation of Amino Acids, Applicant has found that the production of high quantities of L-proline in *Chlorella* sp. 580 algae can be brought about by increasing the salinity of its growth medium. That is, the algae are cultured for a period of time in a growth medium containing a relatively low concentration of sodium chloride such as, for example, from about 0.25 to about 0.5M NaCl, and preferably 0.5M NaCl, and then the algae are stressed by increasing the salinity of the growth medium whereby excess amounts of L-proline are produced within the algae cells.

BSPR:

The production of L-proline thus can be broken down into two phases. In the first phase, or the growth phase, the algae are added to a suitable growth medium (supplemented tap or sea-water) at low density and allowed to divide and increase their cell number and mass for a period of time, normally from about three to twenty-one days, until they have reached a cell density of from about 250 to about 5000mg/l based on dry cell weight. Upon reaching the aforementioned cell density, the algae are then transferred promptly to a culture medium having a higher concentration of sodium chloride and the cells are then made proline productive by continued incubation without growth for an additional period of time from about 6 to 80 hours, typically 16 hours. This is the second phase, or proline production phase of the process. In lieu of transferring the algae from one medium having a lower sodium chloride concentration to a second and separate medium containing a higher sodium chloride concentration, the sodium chloride content of the original growth medium can simply be increased to a higher concentration at the end of the growth phase. For optimal growth and proline production, growth is carried out in the presence of approximately 0.5M sodium chloride followed by proline production in the presence of 1M sodium chloride.

WEST☐ Generate Collection

L4: Entry 1 of 4

File: USPT

Aug 20, 1996

DOCUMENT-IDENTIFIER: US 5547692 A

TITLE: Fermented bagasse feed, and its preparation and uses

ABPL:

A highly-digestible, preferred taste and high-quality fermented bagasse feed prepared by incorporating a lactic acid bacterium capable of proliferating in an alkaline nutrient culture medium of not less than pH 9.5 or in a nutrient culture medium containing sodium chloride of 6.5 w/w % into an alkali-treated bagasse which is prepared by softening a bagasse while preventing the substantial decomposition of cellulose and hemicellulose, and succeedingly fermenting the resultant mixture, and to its preparation and uses.

BSPR:

In order to overcome the above object, we have studied eagerly while paying attention to a seed culture of lactic acid bacteria capable of proliferating in relatively-high pH or high saline concentration culture medium containing an alkali-treated bagasse. As a result, we found that lactic acid bacteria capable of proliferating in alkaline nutrient media of not less than pH 9.5 or in nutrient culture media containing sodium chloride of 6.5% are preferable, and that by inoculating a seed culture of the present lactic acid bacteria into an alkali-treated bagasse, a high-quality fermented bagasse feed can be readily prepared from the alkali-treated bagasse of not less than pH 9, and accomplished the present invention.

DEPR:

The present invention utilizes the fermentation process wherein lactic acid bacteria capable of proliferating in nutrient culture media of pH 9.5 or in nutrient culture media containing sodium chloride of 6.5%, preferably, lactic acid bacteria belonging to the genus Enterococcus are inoculated. This process is characterized by (1) inoculating a seed culture of lactic acid bacteria in an early stage without neutralization by acid because said lactic acid bacteria are capable of proliferating at a high pH level of not less than 9.5; (2) utilizing as alkali reagents in the case of preparing an alkali-treated bagasse, calcium hydroxide, sodium carbonate and the like capable of alkalizing in a relatively-high concentration, but not limited to sodium chloride capable of alkalizing in a relatively-low concentration, and utilizing arbitrarily calcium oxide together with or without sodium hydroxide as explained thereafter; (3) suitable for a large-scale production of a fermented bagasse feed from an alkali-treated bagasse because of easily controllable, short-period and relatively costless production.

DEPR:

On the basis of the above result, the present inventors designated the microorganism as a novel microorganism Enterococcus faecium HL-5 and, on the date of Dec. 17, 1993, deposited it in the National Institute of Bioscience and Human-Technology Agency of Industrial Science and Technology located at 1-3, Higashi 1 chome Tsukuba-shi Ibaraki-ken, and it was given the deposit number of FERM BP-4504. In the present invention, addition to the above microorganism, the other strains belonging to the genus Enterococcus, which are capable of proliferating in an alkali medium containing an alkali-treated bagasse and having not less than pH 9.5 or in a nutrient culture medium containing 6.5% sodium chloride as well as an alkali-treated bagasse, and also their mutants are utilizable preferably. The other strains belonging to the

genus *Enterococcus* usable in the present invention include, for instance, *Enterococcus casseliflavus* IFO 3531, *Enterococcus durans* IFO 13131, *Enterococcus faecalis* IFO 3791, *Enterococcus faecium* IFO 3535 and *Enterococcus hirae* IFO 3181T.

DEPR:

As described above, bagasse, an unutilized agricultural waste, is utilized according to the invention to prepare an alkali-treated bagasse by utilizing alkali reagents, and further a good digestible, preferable taste and high quality fermented bagasse feed is produced easily within a relatively-short period of time by inoculating lactic acid bacteria capable of proliferating in an alkaline nutrient culture medium of not less than pH 9.5 or in a nutrient culture medium containing 6.5% sodium chloride into the alkali-treated bagasse and fermenting the mixture.

CLPR:

1. A fermented bagasse feed, which is prepared by incorporating a nutrient source and a seed culture of a lactic acid bacterium capable of proliferating in an alkaline nutrient culture medium of not less than pH 9.5 or in a nutrient culture medium containing 6.5 w/w % sodium chloride into a alkali-treated bagasse, and by fermenting the resultant mixture said alkali-treated bagasse being prepared by softening a bagasse with calcium oxide with or without sodium hydroxide while preventing the substantial decomposition of cellulose.

CLPV:

(a) incorporating a nutrient source and a seed culture of a lactic acid bacterium capable of proliferating in an alkaline nutrient culture medium of not less than pH 9.5 or in a nutrient culture medium containing 6.5 w/w % sodium chloride into an alkali-treated bagasse, prepared by softening a bagasse with calcium oxide with or without sodium hydroxide while preventing the substantial decomposition of cellulose and hemicellulose, and

CLPV:

(a) providing a fermented bagasse which is fermented by incorporating a nutrient source and a seed culture of a lactic acid bacterium capable of proliferating in an alkaline nutrient culture medium of not less than pH 9.5 or in a nutrient culture medium containing 6.5 w/w % sodium chloride into an alkali-treated bagasse, prepared by softening a bagasse with calcium oxide with or without sodium hydroxide while preventing the substantial decomposition of cellulose and hemicellulose, and

WEST☐ Generate Collection

L1: Entry 39 of 48

File: USPT

Nov 14, 1995

DOCUMENT-IDENTIFIER: US 5466445 A

TITLE: Methods for reducing salmonella in chickens

BSPR:

Typically, an oil-in-water emulsion is prepared by mixing between approximately 0.5 to 50 grams of the biologically active copolymers with 5.0 ml of mineral oil in a Potter-Elvehjem homogenizer. Next, 95.0 ml of phosphate buffered saline (0.85M sodium chloride, pH 7.3) containing 0.2% polyoxyethylene sorbitan monooleate (Tween 80, Atlas Chemical Industries, Wilmington, Del.) and 50 mg bovine serum albumin (BSA, Sigma Chemical. Co., St. Louis, Mo.) is added. The mixture is homogenized thoroughly to form a fine emulsion. The BSA and Tween 80 are used to stabilize the emulsion. It is to be understood that the method of preparing the emulsion, the proportions of oil and water and the type of oil used are not critical. An effective emulsion could be prepared by using a blender, by sonication or other means well known to those of ordinary skill in the art. It is to be further understood that other carriers, emulsifiers, aqueous solutions and adjuvants that are known to those of ordinary skill in the art can be used with the biologically active copolymers of the present invention.

DEPR:

The effects of the biologically active copolymer T150R1 of the present invention on malignant human cells were evaluated by incubating various doses of the copolymer with K562 acute myeloblastic leukemia cells or HL-60 promyelocytic leukemia cells and determining viable cell numbers by the trypan-blue exclusion method and cellular proliferation as measured by incorporation of ³H-thymidine into DNA after two days of culture in CEM medium containing 5% fetal calf serum. The results are shown in FIGS. 6 and 7.

DEPR:

As shown in FIG. 7, the biologically-active copolymer of the present invention strikingly inhibited DNA synthesis by both HL-60 and K562. The HL-60 was more greatly affected than the K562 cell line. However, with the 30 μ g dose at which greater than 70% of the K562 cells in the culture were alive, DNA synthesis by these cells was inhibited greater than 85%.

DEPR:

Cell cultures were incubated with various concentrations of the two copolymers. After 24 hours of incubation, the level of lactic dehydrogenase (LDH) was measured in the supernatant and compared to the total LDH in untreated cells. The release of LDH into the surrounding medium is a measure of cell death. As shown in FIG. 8, the two cell lines responded very differently to the two drugs.

DEPR:

A λ . nalidixic acid resistant strain of *S. typhimurium* previously isolated from chickens was inoculated onto a slant of BG sulfa agar with 200 ppm added nalidixic acid and incubated for 24 hours. The slant was then washed with sterile saline and the resulting suspension used to generate a stock culture that was compared to a standard optical density curve to determine the concentration of Salmonella. 0.5 ml of the appropriate dilution of Salmonella was then gavaged into the crop of a chick on the indicated day.

US-PAT-NO: 3650899

DOCUMENT-IDENTIFIER: US 3650899 A

TITLE: PROCESS FOR PRODUCING L-PROLINE

DATE-ISSUED: March 21, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Noguchi; Yuichi	Hofu-shi	N/A	N/A	JA
Nakanishi; Toru	Hofu-shi	N/A	N/A	JA
Taketugu; Yasuyuki	Hofu-shi	N/A	N/A	JA

US-CL-CURRENT: 435/107; 435/861

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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Term	Documents
"CHLORIDE CONCENTRATION".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
"CULTURE MEDIUM".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
FERMENTOR.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	3566
FERMENTORS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1461
(FERMENTOR AND "CULTURE MEDIUM" AND "CHLORIDE CONCENTRATION").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	37

[Display](#)[10](#)

Documents, starting with Document:

[37](#)**Display Format:**[CIT](#)[Change Format](#)

US-PAT-NO: 3939279

DOCUMENT-IDENTIFIER: US 3939279 A

TITLE: Feed and method of aquianimals cultivation

DATE-ISSUED: February 17, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kawano; Takatsugu	Nobeoka	N/A	N/A	JA
Kojima; Hiroshige	Nobeoka	N/A	N/A	JA
Ohosawa; Hiroshi	Nobeoka	N/A	N/A	JA
Morinaga; Kazuto	Nobeoka	N/A	N/A	JA

US-CL-CURRENT: 426/2; 426/60, 426/62, 435/255.4, 435/921, 435/940, 435/944,
435/946

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 36. Document ID: US 3857967 A

L4: Entry 36 of 37

File: USPT

Dec 31, 1974

US-PAT-NO: 3857967

DOCUMENT-IDENTIFIER: US 3857967 A

TITLE: PREPARATION OF FOOD AND BEVERAGES WITH PEPTIDOGLUTAMINASE

DATE-ISSUED: December 31, 1974

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kikuchi; Mamoru	Nagareyama	N/A	N/A	JA
Sakaguchi; Kenji	Kashiwa	N/A	N/A	JA
Nakano; Eiichi	Noda	N/A	N/A	JA

US-CL-CURRENT: 426/18; 426/36, 426/42, 426/46

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 37. Document ID: US 3650899 A

L4: Entry 37 of 37

File: USPT

Mar 21, 1972

US-PAT-NO: 5440018
DOCUMENT-IDENTIFIER: US 5440018 A

TITLE: Recombinant human serum albumin, process for producing the same and pharmaceutical preparation containing the same

DATE-ISSUED: August 8, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohmura; Takao	Osaka	N/A	N/A	JPX
Sumi; Akinori	Osaka	N/A	N/A	JPX
Ohtani; Wataru	Osaka	N/A	N/A	JPX
Fuluhata; Naoto	Osaka	N/A	N/A	JPX
Takeshima; Kazuya	Osaka	N/A	N/A	JPX
Kamide; Kaeko	Osaka	N/A	N/A	JPX
Noda; Munehiro	Osaka	N/A	N/A	JPX
Kondo; Masahide	Osaka	N/A	N/A	JPX
Ishikawa; Syoichi	Osaka	N/A	N/A	JPX
Oohara; Kazuhiro	Osaka	N/A	N/A	JPX
Yokoyama; Kazumasa	Osaka	N/A	N/A	JPX

US-CL-CURRENT: 530/363; 530/364, 530/412, 530/414, 530/415, 530/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 15. Document ID: US 5436231 A

L4: Entry 15 of 37

File: USPT

Jul 25, 1995

US-PAT-NO: 5436231
DOCUMENT-IDENTIFIER: US 5436231 A

TITLE: Adenophostins

DATE-ISSUED: July 25, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takahashi; Shuji	Tokyo	N/A	N/A	JPX
Takahashi; Masaaki	Tokyo	N/A	N/A	JPX
Tanzawa; Kazuhiko	Tokyo	N/A	N/A	JPX
Ogawa; Kaneo	Iwaki	N/A	N/A	JPX
Hosoya; Tsuyoshi	Tsukuba	N/A	N/A	JPX

US-CL-CURRENT: 514/47; 435/89, 536/26.21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 16. Document ID: US 5407810 A

L4: Entry 13 of 37

File: USPT

May 28, 1996

US-PAT-NO: 5521287

DOCUMENT-IDENTIFIER: US 5521287 A

TITLE: Recombinant human serum albumin, process for producing the same and pharmaceutical preparation containing the same

DATE-ISSUED: May 28, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohmura; Takao	Osaka	N/A	N/A	JPX
Sumi; Akinori	Osaka	N/A	N/A	JPX
Ohtani; Wataru	Osaka	N/A	N/A	JPX
Furuhata; Naoto	Osaka	N/A	N/A	JPX
Takeshima; Kazuya	Osaka	N/A	N/A	JPX
Kamide; Kaeko	Osaka	N/A	N/A	JPX
Noda; Munehiro	Osaka	N/A	N/A	JPX
Kondo; Masahide	Kyoto	N/A	N/A	JPX
Ishikawa; Syoichi	Kyoto	N/A	N/A	JPX
Oohara; Kazuhiro	Osaka	N/A	N/A	JPX
Yokoyama; Kazumasa	Osaka	N/A	N/A	JPX
Fujiwara; Nagatoshi	Osaka	N/A	N/A	JPX

US-CL-CURRENT: 530/363; 530/364, 530/413, 530/414, 530/415, 530/416, 530/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 14. Document ID: US 5440018 A

L4: Entry 14 of 37

File: USPT

Aug 8, 1995

L4: Entry 16 of 37

File: USPT

Apr 18, 1995

US-PAT-NO: 5407810

DOCUMENT-IDENTIFIER: US 5407810 A

TITLE: Aqueous multiple-phase isolation of polypeptide

DATE-ISSUED: April 18, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Builder; Stuart	Belmont	CA	N/A	N/A
Hart; Roger	Burlingame	CA	N/A	N/A
Lester; Philip	San Lorenzo	CA	N/A	N/A
Ogez; John	Redwood City	CA	N/A	N/A
Reifsnnyder; David	San Mateo	CA	N/A	N/A

US-CL-CURRENT: 435/69.1; 435/804, 530/399, 530/412, 530/422, 530/808

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 17. Document ID: US 5350528 A

L4: Entry 17 of 37

File: USPT

Sep 27, 1994

US-PAT-NO: 5350528

DOCUMENT-IDENTIFIER: US 5350528 A

TITLE: Method of supporting fractures in geological formations and hydraulic fluid composition for same

DATE-ISSUED: September 27, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Westland; John A.	Bothell	WA	N/A	N/A
Penny; Glenn S.	Duncan	OK	N/A	N/A
Stephens; R. Scott	Auburn	WA	N/A	N/A
Winslow; Alan R.	Tacoma	WA	N/A	N/A

US-CL-CURRENT: 507/214; 166/283, 166/308, 507/211, 507/213, 507/215, 507/216, 507/217, 507/922

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 18. Document ID: US 5348863 A

L4: Entry 18 of 37

File: USPT

Sep 20, 1994

US-PAT-NO: 5348863

DOCUMENT-IDENTIFIER: US 5348863 A

TITLE: Process for the enzymatic preparation of basic fibroblast growth factor

DATE-ISSUED: September 20, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Monsan; Pierre	Mondonville	N/A	N/A	FRX
Paul; Francois	Toulouse	N/A	N/A	FRX
Betbeder; Didier	Toulouse	N/A	N/A	FRX
Sarmientos; Paolo	Milan	N/A	N/A	ITX

US-CL-CURRENT: 435/68.1; 530/399, 530/413

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 19. Document ID: US 5300432 A

L4: Entry 19 of 37

File: USPT

Apr 5, 1994

US-PAT-NO: 5300432

DOCUMENT-IDENTIFIER: US 5300432 A

TITLE: Octanucleotide restriction endonuclease, Srf I, and method for producing the same

DATE-ISSUED: April 5, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Simcox; Timothy G.	Del Mar	CA	N/A	N/A
Simcox; Mary E.	Del Mar	CA	N/A	N/A

US-CL-CURRENT: 435/199; 435/886

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 20. Document ID: US 5288704 A

L4: Entry 20 of 37

File: USPT

Feb 22, 1994

US-PAT-NO: 5288704
DOCUMENT-IDENTIFIER: US 5288704 A

TITLE: Synergistic composition comprising a fibroblast growth factor and a sulfated polysaccharide, for use as antiviral agent

DATE-ISSUED: February 22, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ungheri; Domenico	Parabiago	N/A	N/A	ITX
Garofano; Luisa	Monza	N/A	N/A	ITX
Battistini; Carlo	Novate Milanese	N/A	N/A	ITX
Carminati; Paolo	Milan	N/A	N/A	ITX
Mazue; Guy	Milan	N/A	N/A	ITX

US-CL-CURRENT: 514/12; 514/54, 514/56, 514/59, 514/885, 514/886, 514/889,
530/399

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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Term	Documents
"CHLORIDE CONCENTRATION".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
"CULTURE MEDIUM".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
FERMENTOR.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	3566
FERMENTORS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1461
(FERMENTOR AND "CULTURE MEDIUM" AND "CHLORIDE CONCENTRATION").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	37

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US-PAT-NO: 4368203
DOCUMENT-IDENTIFIER: US 4368203 A

TITLE: Antibiotics and derivatives thereof having .beta.-lactamase inhibitory activity and production thereof

DATE-ISSUED: January 11, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okamura; Kazuhiko	Yamato	N/A	N/A	JPX
Hirata; Shoji	Miyagi	N/A	N/A	JPX
Okumura; Yasushi	Kamakura	N/A	N/A	JPX
Fukagawa; Yasuo	Kamakura	N/A	N/A	JPX
Shimauchi; Yasutaka	Ninomiya	N/A	N/A	JPX
Ishikura; Tomoyuki	Chigasaki	N/A	N/A	JPX
Kouno; Kageaki	Tokyo	N/A	N/A	JPX
Lein; Joseph	Fayetteville	NY	N/A	N/A

US-CL-CURRENT: 514/210.1; 435/119, 540/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 26. Document ID: US 4337199 A

L4: Entry 26 of 37

File: USPT

Jun 29, 1982

US-PAT-NO: 4337199
DOCUMENT-IDENTIFIER: US 4337199 A

TITLE: Antibiotic .beta.-lactam compounds, production thereof, and their use as antimicrobial agent

DATE-ISSUED: June 29, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshioka; Takeo	Ayase	N/A	N/A	JPX
Yamamoto; Kenichi	Fujisawa	N/A	N/A	JPX
Yamada; Kaoru	Chigasaki	N/A	N/A	JPX
Kato; Yasuyuki	Kawasaki	N/A	N/A	JPX
Shimauchi; Yasutaka	Ninomiya	N/A	N/A	JPX
Ishikura; Tomoyuki	Chigasaki	N/A	N/A	JPX

US-CL-CURRENT: 540/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 27. Document ID: US 4318916 A

L4: Entry 27 of 37

File: USPT

Mar 9, 1982

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L4: Entry 21 of 37

File: USPT

Oct 5, 1993

US-PAT-NO: 5250416

DOCUMENT-IDENTIFIER: US 5250416 A

TITLE: Method for highly sensitive determination of NADH using kinase

DATE-ISSUED: October 5, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohno; Tsuyoshi	Matsudo	N/A	N/A	N/A
Suzuki; Masaru	Nagareyama	N/A	N/A	N/A
Horiuchi; Tatsuo	Nagareyama	N/A	N/A	N/A
Shirahase; Yasushi	Kobe	N/A	N/A	N/A
Kishi; Koji	Kobe	N/A	N/A	N/A
Watazu; Yoshifumi	Akashi	N/A	N/A	N/A

US-CL-CURRENT: [435/15](#); [435/188](#), [435/25](#), [435/90](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 22. Document ID: US 5227299 A

L4: Entry 22 of 37

File: USPT

Jul 13, 1993

US-PAT-NO: 5227299

DOCUMENT-IDENTIFIER: US 5227299 A

TITLE: NADH kinase and a process for producing the same

DATE-ISSUED: July 13, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohno; Tsuyoshi	Matsudo	N/A	N/A	JPX
Suzuki; Masaru	Nagareyama	N/A	N/A	JPX
Horiuchi; Tatsuo	Nagareyama	N/A	N/A	JPX

US-CL-CURRENT: [435/194](#); [435/71.1](#), [435/938](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 23. Document ID: US 4696900 A

L4: Entry 23 of 37

File: USPT

Sep 29, 1987

US-PAT-NO: 4696900

DOCUMENT-IDENTIFIER: US 4696900 A

TITLE: Production of bacterial polysaccharides

DATE-ISSUED: September 29, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ellwood; Derek C.	Winterbourne Stoke	N/A	N/A	GB2
Evans; Charles G. T.	Salisbury	N/A	N/A	GB2
Yeo; Richard G.	Salisbury	N/A	N/A	GB2

US-CL-CURRENT: 435/104; 435/813, 435/910

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Draw Desc	Image
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☐ 24. Document ID: US 4681852 A

L4: Entry 24 of 37

File: USPT

Jul 21, 1987

US-PAT-NO: 4681852

DOCUMENT-IDENTIFIER: US 4681852 A

TITLE: Novel microorganism and method

DATE-ISSUED: July 21, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tribe; David E.	Wilmington	DE	N/A	N/A

US-CL-CURRENT: 435/108; 435/849

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Draw Desc	Image
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☐ 25. Document ID: US 4368203 A

L4: Entry 25 of 37

File: USPT

Jan 11, 1983

US-PAT-NO: 4318916
DOCUMENT-IDENTIFIER: US 4318916 A

TITLE: Antibiotic PS-5 and derivatives having .beta.-lactamase inhibitory activity and production thereof

DATE-ISSUED: March 9, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okamura; Kazuhiko	Yamato	N/A	N/A	JPX
Hirata; Shoji	Fujisawa	N/A	N/A	JPX
Okumura; Yasushi	Kamakura	N/A	N/A	JPX
Fukagawa; Yasuo	Kamakura	N/A	N/A	JPX
Shimauchi; Yasutaka	Ninomiya	N/A	N/A	JPX
Ishikura; Tomoyuki	Chigasaki	N/A	N/A	JPX
Kouno; Kageaki	Ikegami oto	N/A	N/A	JPX
Lein; Joseph	Fayetteville	NY	N/A	N/A

US-CL-CURRENT: 514/210.1; 424/114, 540/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 28. Document ID: US 4276094 A

L4: Entry 28 of 37 File: USPT Jun 30, 1981

US-PAT-NO: 4276094
DOCUMENT-IDENTIFIER: US 4276094 A

TITLE: Cleaning oil-contaminated vessels with .alpha.-emulsans

DATE-ISSUED: June 30, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gutnick; David L.	Ramat Aviv	N/A	N/A	ILX
Rosenberg; Eugene	Raanana	N/A	N/A	ILX

US-CL-CURRENT: 134/10; 134/22.14, 134/40, 435/822

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 29. Document ID: US 4237230 A

L4: Entry 29 of 37 File: USPT Dec 2, 1980

US-PAT-NO: 4237230
DOCUMENT-IDENTIFIER: US 4237230 A

TITLE: Novel lactase

DATE-ISSUED: December 2, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Iida; Takao	Shiga	N/A	N/A	JPX
Ozaki; Sho	Shiga	N/A	N/A	JPX
Kotaka; Toshihiko	Otsu	N/A	N/A	JPX

US-CL-CURRENT: 435/207; 435/835

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 30. Document ID: US 4152209 A

L4: Entry 30 of 37

File: USPT

May 1, 1979

US-PAT-NO: 4152209
DOCUMENT-IDENTIFIER: US 4152209 A

TITLE: Nucleotide pyrophosphotransferase and method of preparation

DATE-ISSUED: May 1, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nishino; Toyokazu	Hikisokita	N/A	N/A	JPX
Hamagishi; Yasutaro	Sakai	N/A	N/A	JPX
Oki; Toshikazu	Kamakura	N/A	N/A	JPX
Murao; Sawao	Sakai	N/A	N/A	JPX

US-CL-CURRENT: 435/194; 435/886, 435/908

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Term	Documents
"CHLORIDE CONCENTRATION".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
"CULTURE MEDIUM".DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	0
FERMENTOR.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	3566
FERMENTORS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1461
(FERMENTOR AND "CULTURE MEDIUM" AND "CHLORIDE CONCENTRATION").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	37

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L4: Entry 31 of 37

File: USPT

Feb 27, 1979

US-PAT-NO: 4141972

DOCUMENT-IDENTIFIER: US 4141972 A

TITLE: Purine nucleoside 5'-phosphate (mono, di or tri) 3'(2')-diphosphates and processes for their preparation

DATE-ISSUED: February 27, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nishino; Toyokazu	Hikisokita	N/A	N/A	JPX
Hamagishi; Yasutaro	Sakai	N/A	N/A	JPX
Oki; Toshikazu	Kamakura	N/A	N/A	JPX
Murao; Sawao	Sakai	N/A	N/A	JPX

US-CL-CURRENT: [514/47](#); [435/886](#), [435/92](#), [536/26.2](#), [536/26.21](#), [536/26.26](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 32. Document ID: US 4092220 A

L4: Entry 32 of 37

File: USPT

May 30, 1978

US-PAT-NO: 4092220

DOCUMENT-IDENTIFIER: US 4092220 A

TITLE: Process for manufacture of L(+)-tartaric acid or salts thereof

DATE-ISSUED: May 30, 1978

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tsurumi; Yoshihiro	Tokyo	N/A	N/A	JA
Fujioka; Tomio	Matsudo	N/A	N/A	JA

US-CL-CURRENT: [435/145](#); [435/182](#), [435/195](#), [435/280](#), [435/823](#), [435/843](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 33. Document ID: US 4061542 A

L4: Entry 33 of 37

File: USPT

Dec 6, 1977

US-PAT-NO: 4061542

DOCUMENT-IDENTIFIER: US 4061542 A

TITLE: 2-Methyl-L-arginine produced by cultivating streptomyces strain

DATE-ISSUED: December 6, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Demny; Thomas Casimir	Livingston	NJ	N/A	N/A
Maehr; Hubert	Belleville	NJ	N/A	N/A

US-CL-CURRENT: 435/114; 435/886, 548/319.1, 548/320.1, 548/371.7, 556/116,
562/560, 562/561

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 34. Document ID: US 4059487 A

L4: Entry 34 of 37

File: USPT

Nov 22, 1977

US-PAT-NO: 4059487

DOCUMENT-IDENTIFIER: US 4059487 A

TITLE: Purine nucleoside 5'-phosphate (mono, di or tri) 3'(2')-diphosphates and processes for their preparation

DATE-ISSUED: November 22, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nishino; Toyokazu	Hikisokita	N/A	N/A	JA
Hamagishi; Yasutaro	Sakai	N/A	N/A	JA
Oki; Toshikazu	Kamakura	N/A	N/A	JA
Murao; Sawao	Sakai	N/A	N/A	JA

US-CL-CURRENT: 435/92; 435/194, 435/826, 435/886

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 35. Document ID: US 3939279 A

L4: Entry 35 of 37

File: USPT

Feb 17, 1976

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L11: Entry 31 of 37

File: USPT

Jul 24, 1979

DOCUMENT-IDENTIFIER: US 4162324 A

TITLE: Antibiotics 890A.sub.1 and 890A.sub.3

BSPR:

Among the nutrient inorganic salts which can be incorporated in the culture media are the customary salts capable of yielding sodium, potassium, ammonium, calcium, magnesium, phosphate, sulfate, chloride, carbonate, and like ions. Also included are trace metals such as cobalt, manganese and iron.

BSPR:

Included in this invention are the non-toxic, pharmaceutically acceptable salts of 890A.sub.1 and 890A.sub.3 for example, the pharmacologically acceptable salts formed with inorganic and organic bases; which include, for example, metal salts derived from alkali metal or alkaline earth metal hydroxides, carbonates or bicarbonates such as those derived from sodium, potassium, ammonium and calcium and salts derived from primary, secondary or tertiary amines such as monoalkylamines, dialkylamines, trialkylamines, lower alkanolamines, di-loweralkanolamines, lower alkylenediamines, N,N-diaralkyl lower alkylenediamines, aralkylamines, amino substituted lower alkanols, N,N-di-lower alkylamino substituted lower alkanols, amino-, polyamino and guanidino-substituted lower alkanolic acids and nitrogen-containing heterocyclic amines. Representative examples include salts derived from sodium hydroxide, ammonium hydroxide, sodium carbonate, sodium bicarbonate, potassium carbonate, potassium hydroxide, calcium carbonate, trimethylamine, triethylamine, piperidine, N-ethylpiperidine, morpholine, quinine, lysine, protamine, arginine, procaine, ethanolamine, morphine, benzylamine, ethylenediamine, N,N'-dibenzylethylenediamine, diethanolamine, piperazine, dimethylaminoethanol, 2-amino-2-methyl-1-propanol, theophylline, N-methylglucamine and the like.

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L11: Entry 36 of 37

File: USPT

Sep 25, 1973

DOCUMENT-IDENTIFIER: US 3761588 A
TITLE: ANTIBIOTICS AND PRODUCTION THEREOF

DRPR:

According to the process of the present invention, the SF-837 strain or its variant or mutant may be cultivated in a known manner in a culture medium containing the nutrients which may be utilised by usual micro-organisms. As the nutrient sources, any of the known nutrients which have usually been used in cultivation of *Streptomyces* may be employed. For example, glucose, starch, glycerine, dextrin, sucrose, saccharified starch, molasses and the like are useful as the carbon source. Soybean meal, wheat-embryo, meat-extract, peptone, corn steep liquor, soluble vegetable protein, dried yeast, ammonium sulfate, sodium nitrate and the like may be used as the nitrogen source. If necessary, inorganic salts such as calcium carbonate, sodium chloride, potassium chloride, phosphates and the like may be added to the culture medium. In addition, such organic and inorganic materials which aid the growth of the SF-837 strain and promote the production of at least one of the SF-837, SF-837-A.sub.2, SF-837-A.sub.3 and SF-837-A.sub.4 substances.

DRPR:

The active substances which have been transferred in solution into the organic solvent may then be reextracted with acidified water. The resulting extract in acidified water may subsequently be made neutral or weakly alkaline in nature by addition of basic substances such as sodium hydroxide, potassium hydroxide, sodium carbonate or sodium bicarbonate and then shaken together with an appropriate organic solvent, so that the active substances are again transferred into the organic solvent phase. By repeating these operations of reversal extraction, the impurities may be removed from the active substances to some extent. The extract in the organic solvent may be concentrated to dryness under reduced pressure, so that a crude powder containing the SF-837, SF-837-A.sub.2, SF-837-A.sub.3 and SF-837-A.sub.4 substances may be recovered. Alternatively the solution of the active substances in acidified water may either be freeze-dried as such to give the acid-addition salts of the active substances, or the aqueous solution may be rendered neutral or weakly alkaline by addition of a suitable basic material to precipitate the active substances in the form of the free base.

DRPR:

The SF-837 strain, namely *Streptomyces mycarofaciens* identified as ATCC No. 21454 was inoculated to 60 l. of a liquid culture medium containing 2.5 percent saccharified starch, 4 percent soluble vegetable protein, 0.3 percent potassium chloride and 0.3 percent calcium carbonate at pH 7.0, and then stirr-cultured in a jar-fermenter at 28.degree.C. for 35 hours under aeration. The resulting culture was filtered directly and the filter cake comprising the mycelium cake was washed with dilute hydrochloric acid.

DRPR:

20 Litres of a culture medium comprising 3 percent glucose, 1 percent peptone, 0.5 percent meat extract, 0.2 percent sodium chloride, 0.3 percent calcium carbonate and 0.3 percent soybean oil (adjusted to pH 7) were placed in a jar-fermenter having a capacity of 30 l., and then sterilized by heating at 120.degree.C. for 20 minutes. Thereafter the SF-837 strain, namely *Streptomyces mycarofaciens* was inoculated to the culture medium and

stirr-cultured at 28.degree.C. for 48 hours under aeration. The fermented broth was filtered at pH 6 to give 18 l. of the culture filtrate (potency, 200 mcg/ml.). The filtrate was adjusted to pH 7.5 by addition of 3N sodium hydroxide and then extracted with 8 l. of butyl acetate. The butyl acetate extract was subsequently processed similarly to Example 1 and finally subjected to chromatographic isolation with silica gel column in the same manner as in Example 1. A white colored powder having a melting point of 122.degree. - 124.degree.C. and consisting of the pure SF-837 substance was obtained at a yield of 800 mg.

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(1 AND "SODIUM BICARBONATE" AND "SODIUM CARBONATE").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	37

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